## IN THE CLAIMS:

	1. (currently amended) A method performed by a data processing system having a memory,
	comprising the steps of:
	inputting a CCFG;
. /	augmenting the CCFG with data edges to produce an augmented CCFG;
H	scheduling the augmented CCFG to produce a scheduled augmented CCFG;
	selecting a first node of the scheduled augmented CCFG;
. \	producing a first copy of the first node for an SCFG; and
my /	coupling, if a first thread of the first node is suspended, between a second node of the
160 /	SCFG of a second previously-running thread and the first copy, a first context switch.
· 1	inputting an order of the CCFG nodes; and
	translating the CCFG into an SCFG by a process that determines context switching prior
	to execution of the SCFG.
	2. (currently amended) The method of claim 1, wherein the first each context switch is achieved
	by adding code that saves a state of a thread being suspended in a state variable and resumes
	another thread by performing a multiway branch on a state variable for a thread being resumed.
	3. (original) The method of claim 1, wherein the translation of the CCFG into the SCFG
	produces, for each node of the CCFG, at most one corresponding node in the SCFG.
	4. (currently amended) The method of claim 1, wherein the step of scheduling comprises further
	comprising a topological sort for determining the scheduled augmented CCFGACCFG order.
	5. (original) The method of claim 1, wherein an execution of the SCFG comprises translation of
	the SCFG into a programming language.

6. (original) The method of claim 5, wherein the programming language is C.

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7. (original) The method of claim 1, further comprising a step of translation of the SCFG into a
programming language.
8. (original) The method of claim $\sqrt{}$ , further comprising a step of executing the programming
language translation of the SCFG.
9. (original) The method of claim 1, wherein an execution of the SCFG comprises interpretation
of the SCFG.
10. (currently amended) A data processing system having a memory, comprising the following:
a sub-system configured for inputting a CCFG;
a sub-system configured for augmenting the CCFG with data edges to produce an
augmented CCFG;
a sub-system configured for scheduling the augmented CCFG to produce a scheduled
augmented CCFG;
a sub-system configured for selecting a first node of the scheduled augmented CCFG;
a sub-system configured for producing a first copy of the first node for an SCFG; and
a sub-system configured for coupling, if a first thread of the first node is suspended,
between a second node of the SCFG of a second previously-running thread and the first copy, a
first context switch.
a sub-system for inputting an order of the CCFG nodes; and
a sub-system for translating the CCFG into an SCFG by a process that determines context
switching prior to execution of the SCFG.
11. (currently amended) A computer program product comprising a computer usable medium
having computer readable code embodied therein, the computer program product including:
computer readable program code devices configured to cause a computer to effect
inputting a CCFG;

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computer readable program code devices configured to cause a computer to effect
augmenting the CCFG with data edges to produce an augmented CCFG;
computer readable program code devices configured to cause a computer to effect
scheduling the augmented CCFG to produce a scheduled augmented CCFG;
computer readable program code devices configured to cause a computer to effect
selecting a first node of the scheduled augmented CCFG;
computer readable program code devices configured to cause a computer to effect
producing a first copy of the first node for an SCFG; and
computer readable program code devices configured to cause a computer to effect
coupling, if a first thread of the first node is suspended, between a second node of the SCFG of a
second previously-running thread and the first copy, a first context switch.
computer readable program code devices configured to cause a computer to effect
inputting an order of the CCFG nodes; and
computer readable program code devices configured to cause a computer to effect
translating the CCFG into an SCFG by a process that determines context switching prior to
execution of the SCFG.
12. (currently amended) A computer data signal embodied in a carrier wave and representing
sequences of instructions which, when executed by a processor, cause performance of steps of:
inputting a CCFG;
augmenting the CCFG with data edges to produce an augmented CCFG;
scheduling the augmented CCFG to produce a scheduled augmented CCFG;
selecting a first node of the scheduled augmented CCFG;
producing a first copy of the first node for an SCFG; and
coupling, if a first thread of the first node is suspended, between a second node of the
SCFG of a second previously-running thread and the first copy, a first context switch.
inputting an order of the CCFG nodes; and
translating the CCFG into an SCFG by a process that determines context switching prior
to execution of the SCFG.